

EK-WL8-OV

Hybrid Wireless Optical Smoke Sensor with Built in Voice Annunciator and VAD

Features

- ▶ Approved to EN54-3, 7, 23 & 25
- ▶ RED compliant
- ▶ Voice Sounder and VAD Incorporated
- ▶ Internal algorithm processing for optimal performance
- ▶ Tamper switch
- ▶ Up to 10 years battery life*
- ▶ Utilises standard low cost lithium battery technology
- ▶ Bi-directional wireless communications
- ▶ Self optimising wireless amplitude and frequency
- ▶ Designed for use with Ekho Translator and Expander modules
- ▶ Adaptable operation (see page 2).



Description

The EK-WL8-OV is a wireless optical smoke sensor that incorporates a voice sounder and visual alarm device (VAD) with white LEDs and 0.5 Hz flash rate. The sensor utilises optical smoke detection technologies and algorithms for

improved performance, which can contribute to reducing unwanted alarms. Utilising well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved.

Specifications

Ordering code	EK-WL8-OV	
Operating frequency range	868 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Number of messages	3 (only one message can be played at any one time)	
Sound pressure level @ 1m	>91 dB(A) for all messages	
Frequency range	500 - 3500 Hz	
VAD LED colour / Rating	White / C-3-7.5 / O-4.4-7.5	
Flash frequency	0.5 Hz	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	95% RH (non-condensing)	
Weight (g) / Dimensions (mm)	215 / Ø 111 x H 74	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals

BS EN 54-3: Sounders

BS EN 54-23: Visual Alarm Devices

BS EN 54-7 Smoke Detectors

BS EN54-25: Components using radio links



*Dependant on operational usage



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The various elements that make up the EK-WL8-OV can be operated/monitored independently, which makes the unit extremely adaptable to its environment. By employing a combination of main address and sub-address, the EK-WL8-OV can operate as:

Function(s)	Addressing
Optical Smoke Sensor only	Main Address
Optical Smoke Sensor & Sounder	Main Address & Sub-Address
Optical Smoke Sensor, Sounder & VAD	Main Address & Sub-Address
Sounder only	Main Address
Sounder & VAD	Main Address
Optical Smoke Sensor & VAD	Main Address & Sub-Address
VAD only	Main Address

